



**FIRST QUANTUM**  
MINERALS LTD.

## PROYECTO MINA DE COBRE PANAMA

### ESTUDIO DE IMPACTO AMBIENTAL (EsIA) CATEGORIA III

## INFORME SEMESTRAL DE PRECIPITACIONES

| Compromiso de EsIA Aplicable | Informe N° | Periodo Reportado         | Elaborado por | Fecha de Emisión del Reporte |
|------------------------------|------------|---------------------------|---------------|------------------------------|
| 13189                        | 3          | Octubre 2020 - Abril 2021 | Minera Panamá | 18/05/2021                   |

### Pluviometro: Rio Caimito

Periodo Reportado: 01/01/2020- 31/12/2020

Precipitación Extrema: 163 mm el 21/12/2020

[illegible]

**REPORTE DE PRECIPITACION****Pluviometro: Rio Caimito**

UBICACIÓN: 535142 E - 997300 N, en Minera Panama, Distrito of Donoso, Provincia de Colon.

Periodo Reportado: 01/01/2021- 30/04/2021

Promedio de Precipitación: 426 mm

Precipitación Extrema: 132 mm el 08/03/2021

Unidad de medición: mm

| Dias         | Jan        | Feb        | Mar        | Apr        | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|--------------|------------|------------|------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 1            | 5          | 9          | 19         | 12         |     |     |     |     |     |     |     |     |
| 2            | 8          | 3          | 2          | 18         |     |     |     |     |     |     |     |     |
| 3            | 39         | 18         | 0          | 1          |     |     |     |     |     |     |     |     |
| 4            | 15         | 1          | 17         | 13         |     |     |     |     |     |     |     |     |
| 5            | 2          | 2          | 3          | 35         |     |     |     |     |     |     |     |     |
| 6            | 0          | 0          | 0          | 0          |     |     |     |     |     |     |     |     |
| 7            | 2          | 3          | 0          | 60         |     |     |     |     |     |     |     |     |
| 8            | 10         | 10         | 132        | 15         |     |     |     |     |     |     |     |     |
| 9            | 56         | 2          | 42         | 42         |     |     |     |     |     |     |     |     |
| 10           | 24         | 4          | 13         | 0          |     |     |     |     |     |     |     |     |
| 11           | 34         | 11         | 15         | 0          |     |     |     |     |     |     |     |     |
| 12           | 60         | 12         | 3          | 3          |     |     |     |     |     |     |     |     |
| 13           | 22         | 5          | 15         | 8          |     |     |     |     |     |     |     |     |
| 14           | 19         | 0          | 16         | 8          |     |     |     |     |     |     |     |     |
| 15           | 16         | 0          | 15         | 41         |     |     |     |     |     |     |     |     |
| 16           | 29         | 3          | 27         | 15         |     |     |     |     |     |     |     |     |
| 17           | 12         | 6          | 0          | 4          |     |     |     |     |     |     |     |     |
| 18           | 32         | 2          | 3          | 0          |     |     |     |     |     |     |     |     |
| 19           | 2          | 2          | 35         | 0          |     |     |     |     |     |     |     |     |
| 20           | 6          | 24         | 2          | 6          |     |     |     |     |     |     |     |     |
| 21           | 8          | 22         | 10         | 22         |     |     |     |     |     |     |     |     |
| 22           | 1          | 4          | 6          | 0          |     |     |     |     |     |     |     |     |
| 23           | 59         | 36         | 3          | 42         |     |     |     |     |     |     |     |     |
| 24           | 0          | 25         | 0          | 67         |     |     |     |     |     |     |     |     |
| 25           | 15         | 2          | 0          | 19         |     |     |     |     |     |     |     |     |
| 26           | 3          | 14         | 2          | 11         |     |     |     |     |     |     |     |     |
| 27           | 24         | 4          | 13         | 4          |     |     |     |     |     |     |     |     |
| 28           | 3          | 5          | 1          | 23         |     |     |     |     |     |     |     |     |
| 29           | 6          |            | 76         | 0          |     |     |     |     |     |     |     |     |
| 30           | 6          |            | 18         | 0          |     |     |     |     |     |     |     |     |
| 31           | 0          |            | 0          |            |     |     |     |     |     |     |     |     |
| <b>Total</b> | <b>518</b> | <b>229</b> | <b>488</b> | <b>469</b> |     |     |     |     |     |     |     |     |
| <b>MEAN</b>  | <b>17</b>  | <b>8</b>   | <b>16</b>  | <b>16</b>  |     |     |     |     |     |     |     |     |
| <b>MAX</b>   | <b>60</b>  | <b>36</b>  | <b>132</b> | <b>67</b>  |     |     |     |     |     |     |     |     |
| <b>MIN</b>   | <b>0</b>   | <b>0</b>   | <b>0</b>   | <b>0</b>   |     |     |     |     |     |     |     |     |

### Pluviómetro: Punta Rincón

Periodo Reportado: 01/01/2020- 31/12/2020

Precipitación Extrema: 172 mm el 21/12/2020

[illegible]

**REPORTE DE PRECIPITACION****Pluviómetro: Punta Rincón**

UBICACIÓN: 533380 E – 995427 N, en Minera Panama, Distrito of Donoso, Provincia de Colon.

Periodo Reportado: 01/01/2021- 30/04/2021

Promedio de Precipitación: 465 mm

Precipitación Extrema: 126 mm el 08/03/2021

Unidad de medición: mm

| Dias         | Jan        | Feb        | Mar        | Apr        | May | Jun | Jul | Aug | Sep | Oct | Nov | Dic |
|--------------|------------|------------|------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 1            | 7          | 19         | 18         | 8          |     |     |     |     |     |     |     |     |
| 2            | 22         | 8          | 0          | 13         |     |     |     |     |     |     |     |     |
| 3            | 45         | 10         | 1          | 1          |     |     |     |     |     |     |     |     |
| 4            | 16         | 1          | 11         | 18         |     |     |     |     |     |     |     |     |
| 5            | 4          | 9          | 1          | 36         |     |     |     |     |     |     |     |     |
| 6            | 0          | 0          | 0          | 1          |     |     |     |     |     |     |     |     |
| 7            | 1          | 4          | 0          | 55         |     |     |     |     |     |     |     |     |
| 8            | 3          | 11         | 126        | 12         |     |     |     |     |     |     |     |     |
| 9            | 46         | 3          | 83         | 116        |     |     |     |     |     |     |     |     |
| 10           | 37         | 0          | 12         | 0          |     |     |     |     |     |     |     |     |
| 11           | 41         | 18         | 22         | 0          |     |     |     |     |     |     |     |     |
| 12           | 59         | 2          | 10         | 1          |     |     |     |     |     |     |     |     |
| 13           | 17         | 7          | 26         | 12         |     |     |     |     |     |     |     |     |
| 14           | 17         | 0          | 5          | 9          |     |     |     |     |     |     |     |     |
| 15           | 19         | 0          | 26         | 87         |     |     |     |     |     |     |     |     |
| 16           | 53         | 1          | 27         | 10         |     |     |     |     |     |     |     |     |
| 17           | 10         | 5          | 0          | 4          |     |     |     |     |     |     |     |     |
| 18           | 28         | 1          | 3          | 0          |     |     |     |     |     |     |     |     |
| 19           | 13         | 4          | 22         | 0          |     |     |     |     |     |     |     |     |
| 20           | 6          | 29         | 1          | 11         |     |     |     |     |     |     |     |     |
| 21           | 6          | 20         | 15         | 19         |     |     |     |     |     |     |     |     |
| 22           | 2          | 5          | 8          | 1          |     |     |     |     |     |     |     |     |
| 23           | 35         | 22         | 5          | 42         |     |     |     |     |     |     |     |     |
| 24           | 0          | 17         | 0          | 32         |     |     |     |     |     |     |     |     |
| 25           | 11         | 0          | 0          | 30         |     |     |     |     |     |     |     |     |
| 26           | 0          | 26         | 1          | 17         |     |     |     |     |     |     |     |     |
| 27           | 22         | 10         | 2          | 4          |     |     |     |     |     |     |     |     |
| 28           | 4          | 8          | 1          | 14         |     |     |     |     |     |     |     |     |
| 29           | 5          |            | 79         | 0          |     |     |     |     |     |     |     |     |
| 30           | 7          |            | 21         | 1          |     |     |     |     |     |     |     |     |
| 31           | 4          |            | 1          |            |     |     |     |     |     |     |     |     |
| <b>TOTAL</b> | <b>540</b> | <b>240</b> | <b>527</b> | <b>554</b> |     |     |     |     |     |     |     |     |
| <b>MEAN</b>  | <b>17</b>  | <b>9</b>   | <b>17</b>  | <b>18</b>  |     |     |     |     |     |     |     |     |
| <b>MAX</b>   | <b>59</b>  | <b>29</b>  | <b>126</b> | <b>116</b> |     |     |     |     |     |     |     |     |
| <b>MIN</b>   | <b>0</b>   | <b>0</b>   | <b>0</b>   | <b>0</b>   |     |     |     |     |     |     |     |     |

### Pluviómetro: Poza 4-TMF

Periodo Reportado: 01/01/2020- 31/12/2020

Precipitación Extrema: 158 mm el 08/12/2020

[illegible]

**REPORTE DE PRECIPITACION****Pluviómetro: Poza 4-TMF**

UBICACIÓN: 536056 E – 983737 N, en Minera Panama, Distrito of Donoso, Provincia de Colon.

Periodo Reportado: 01/01/2021- 30/04/2021

Promedio de Precipitación: 431 mm

Precipitación Extrema: 145 mm el 05/04/2021

Unidad de medición: mm

| Días        | Jan        | Feb        | Mar        | Apr        | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|-------------|------------|------------|------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 1           | 5          | 19         | 19         | 14         |     |     |     |     |     |     |     |     |
| 2           | 22         | 18         | 1          | 90         |     |     |     |     |     |     |     |     |
| 3           | 23         | 60         | 1          | 4          |     |     |     |     |     |     |     |     |
| 4           | 3          | 11         | 6          | 28         |     |     |     |     |     |     |     |     |
| 5           | 9          | 5          | 0          | 145        |     |     |     |     |     |     |     |     |
| 6           | 0          | 0          | 1          | 1          |     |     |     |     |     |     |     |     |
| 7           | 0          | 14         | 0          | 46         |     |     |     |     |     |     |     |     |
| 8           | 0          | 7          | 113        | 16         |     |     |     |     |     |     |     |     |
| 9           | 21         | 1          | 81         | 50         |     |     |     |     |     |     |     |     |
| 10          | 13         | 2          | 22         | 0          |     |     |     |     |     |     |     |     |
| 11          | 27         | 5          | 9          | 0          |     |     |     |     |     |     |     |     |
| 12          | 33         | 1          | 9          | 0          |     |     |     |     |     |     |     |     |
| 13          | 10         | 3          | 55         | 15         |     |     |     |     |     |     |     |     |
| 14          | 8          | 0          | 3          | 5          |     |     |     |     |     |     |     |     |
| 15          | 18         | 0          | 14         | 41         |     |     |     |     |     |     |     |     |
| 16          | 24         | 3          | 10         | 38         |     |     |     |     |     |     |     |     |
| 17          | 5          | 6          | 0          | 5          |     |     |     |     |     |     |     |     |
| 18          | 9          | 0          | 0          | 1          |     |     |     |     |     |     |     |     |
| 19          | 10         | 9          | 11         | 0          |     |     |     |     |     |     |     |     |
| 20          | 6          | 19         | 5          | 1          |     |     |     |     |     |     |     |     |
| 21          | 6          | 32         | 9          | 4          |     |     |     |     |     |     |     |     |
| 22          | 2          | 10         | 3          | 3          |     |     |     |     |     |     |     |     |
| 23          | 20         | 14         | 0          | 11         |     |     |     |     |     |     |     |     |
| 24          | 1          | 14         | 0          | 21         |     |     |     |     |     |     |     |     |
| 25          | 18         | 12         | 3          | 17         |     |     |     |     |     |     |     |     |
| 26          | 2          | 41         | 3          | 7          |     |     |     |     |     |     |     |     |
| 27          | 15         | 11         | 14         | 0          |     |     |     |     |     |     |     |     |
| 28          | 10         | 7          | 7          | 11         |     |     |     |     |     |     |     |     |
| 29          | 13         |            | 48         | 0          |     |     |     |     |     |     |     |     |
| 30          | 10         |            | 17         | 5          |     |     |     |     |     |     |     |     |
| 31          | 10         |            | 2          |            |     |     |     |     |     |     |     |     |
| <b>TOTA</b> | <b>353</b> | <b>324</b> | <b>466</b> | <b>579</b> |     |     |     |     |     |     |     |     |
| <b>MEAN</b> | <b>11</b>  | <b>12</b>  | <b>15</b>  | <b>19</b>  |     |     |     |     |     |     |     |     |
| <b>MAX</b>  | <b>33</b>  | <b>60</b>  | <b>113</b> | <b>145</b> |     |     |     |     |     |     |     |     |
| <b>MIN</b>  | <b>0</b>   | <b>0</b>   | <b>0</b>   | <b>0</b>   |     |     |     |     |     |     |     |     |

### Pluviómetro: TMF

Periodo Reportado: 01/01/2020- 31/12/2020

Precipitación Extrema: 146 mm el 08/12/2020

[illegible]



**REPORTE DE PRECIPITACION****Pluviómetro: TMF**

UBICACIÓN: 539187 E – 981979 N, en Minera Panama, Distrito of Donoso, Provincia de Colon.

Periodo Reportado: 01/01/2021- 30/04/2021

Promedio de Precipitación: 369 mm

Precipitación Extrema: 130 mm el 05/04/2021

Unidad de medición: mm

| Dias        | Jan        | Feb        | Mar        | Apr        | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|-------------|------------|------------|------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 1           | 5          | 13         | 15         | 15         |     |     |     |     |     |     |     |     |
| 2           | 3          | 10         | 4          | 50         |     |     |     |     |     |     |     |     |
| 3           | 27         | 54         | 1          | 8          |     |     |     |     |     |     |     |     |
| 4           | 5          | 5          | 4          | 41         |     |     |     |     |     |     |     |     |
| 5           | 4          | 4          | 1          | 130        |     |     |     |     |     |     |     |     |
| 6           | 0          | 0          | 0          | 4          |     |     |     |     |     |     |     |     |
| 7           | 0          | 9          | 0          | 46         |     |     |     |     |     |     |     |     |
| 8           | 0          | 5          | 105        | 9          |     |     |     |     |     |     |     |     |
| 9           | 25         | 1          | 63         | 37         |     |     |     |     |     |     |     |     |
| 10          | 14         | 1          | 17         | 0          |     |     |     |     |     |     |     |     |
| 11          | 29         | 3          | 12         | 0          |     |     |     |     |     |     |     |     |
| 12          | 35         | 0          | 7          | 0          |     |     |     |     |     |     |     |     |
| 13          | 25         | 2          | 29         | 10         |     |     |     |     |     |     |     |     |
| 14          | 7          | 0          | 3          | 2          |     |     |     |     |     |     |     |     |
| 15          | 13         | 0          | 12         | 25         |     |     |     |     |     |     |     |     |
| 16          | 20         | 0          | 13         | 24         |     |     |     |     |     |     |     |     |
| 17          | 6          | 6          | 0          | 5          |     |     |     |     |     |     |     |     |
| 18          | 7          | 1          | 0          | 1          |     |     |     |     |     |     |     |     |
| 19          | 10         | 8          | 19         | 0          |     |     |     |     |     |     |     |     |
| 20          | 11         | 19         | 1          | 0          |     |     |     |     |     |     |     |     |
| 21          | 2          | 15         | 18         | 6          |     |     |     |     |     |     |     |     |
| 22          | 5          | 6          | 2          | 3          |     |     |     |     |     |     |     |     |
| 23          | 15         | 5          | 0          | 12         |     |     |     |     |     |     |     |     |
| 24          | 5          | 19         | 0          | 27         |     |     |     |     |     |     |     |     |
| 25          | 10         | 6          | 1          | 22         |     |     |     |     |     |     |     |     |
| 26          | 1          | 23         | 1          | 1          |     |     |     |     |     |     |     |     |
| 27          | 12         | 10         | 20         | 2          |     |     |     |     |     |     |     |     |
| 28          | 4          | 13         | 5          | 15         |     |     |     |     |     |     |     |     |
| 29          | 9          |            | 36         | 2          |     |     |     |     |     |     |     |     |
| 30          | 15         |            | 15         | 3          |     |     |     |     |     |     |     |     |
| 31          | 9          |            | 1          |            |     |     |     |     |     |     |     |     |
| <b>TOTA</b> | <b>333</b> | <b>238</b> | <b>405</b> | <b>500</b> |     |     |     |     |     |     |     |     |
| <b>MEAN</b> | <b>11</b>  | <b>9</b>   | <b>13</b>  | <b>17</b>  |     |     |     |     |     |     |     |     |
| <b>MAX</b>  | <b>35</b>  | <b>54</b>  | <b>105</b> | <b>130</b> |     |     |     |     |     |     |     |     |
| <b>MIN</b>  | <b>0</b>   | <b>0</b>   | <b>0</b>   | <b>0</b>   |     |     |     |     |     |     |     |     |

### Pluviómetro: Botija Laydown

Periodo Reportado: 01/01/2020- 31/09/2021

Precipitación Extrema: 134 mm el 14/08/2020

Unidad de medición: mm

[illegible]

**REPORTE DE PRECIPITACION****Pluviómetro: Botija Laydown**

UBICACIÓN: 539076 E – 978121 N, en Minera Panama, Distrito of Donoso, Provincia de Colon.

Periodo Reportado: 01/01/2021- 30/04/2021

Promedio de Precipitación: 347 mm

Precipitación Extrema: 105 mm el 05/04/2021

Unidad de medición: mm

| Días          | Jan        | Feb        | Mar        | Apr        | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---------------|------------|------------|------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 1             | 2          | 8          | 6          | 17         |     |     |     |     |     |     |     |     |
| 2             | 3          | 17         | 4          | 47         |     |     |     |     |     |     |     |     |
| 3             | 15         | 47         | 1          | 5          |     |     |     |     |     |     |     |     |
| 4             | 9          | 6          | 0          | 29         |     |     |     |     |     |     |     |     |
| 5             | 6          | 2          | 0          | 105        |     |     |     |     |     |     |     |     |
| 6             | 0          | 0          | 0          | 2          |     |     |     |     |     |     |     |     |
| 7             | 0          | 11         | 0          | 48         |     |     |     |     |     |     |     |     |
| 8             | 0          | 10         | 90         | 15         |     |     |     |     |     |     |     |     |
| 9             | 14         | 0          | 59         | 83         |     |     |     |     |     |     |     |     |
| 10            | 9          | 1          | 20         | 1          |     |     |     |     |     |     |     |     |
| 11            | 24         | 3          | 9          | 2          |     |     |     |     |     |     |     |     |
| 12            | 25         | 0          | 5          | 0          |     |     |     |     |     |     |     |     |
| 13            | 46         | 2          | 23         | 9          |     |     |     |     |     |     |     |     |
| 14            | 7          | 0          | 6          | 3          |     |     |     |     |     |     |     |     |
| 15            | 15         | 0          | 6          | 39         |     |     |     |     |     |     |     |     |
| 16            | 24         | 0          | 7          | 19         |     |     |     |     |     |     |     |     |
| 17            | 7          | 6          | 0          | 11         |     |     |     |     |     |     |     |     |
| 18            | 5          | 0          | 0          | 2          |     |     |     |     |     |     |     |     |
| 19            | 9          | 3          | 18         | 0          |     |     |     |     |     |     |     |     |
| 20            | 11         | 9          | 4          | 1          |     |     |     |     |     |     |     |     |
| 21            | 2          | 13         | 12         | 6          |     |     |     |     |     |     |     |     |
| 22            | 3          | 8          | 2          | 2          |     |     |     |     |     |     |     |     |
| 23            | 11         | 2          | 0          | 18         |     |     |     |     |     |     |     |     |
| 24            | 8          | 18         | 0          | 12         |     |     |     |     |     |     |     |     |
| 25            | 12         | 4          | 9          | 17         |     |     |     |     |     |     |     |     |
| 26            | 4          | 26         | 0          | 1          |     |     |     |     |     |     |     |     |
| 27            | 12         | 17         | 11         | 2          |     |     |     |     |     |     |     |     |
| 28            | 5          | 8          | 6          | 13         |     |     |     |     |     |     |     |     |
| 29            | 12         |            | 21         | 2          |     |     |     |     |     |     |     |     |
| 30            | 13         |            | 15         | 1          |     |     |     |     |     |     |     |     |
| 31            | 5          |            | 3          |            |     |     |     |     |     |     |     |     |
| <b>TOTALL</b> | <b>318</b> | <b>221</b> | <b>337</b> | <b>512</b> |     |     |     |     |     |     |     |     |
| <b>MEAN</b>   | <b>10</b>  | <b>8</b>   | <b>11</b>  | <b>17</b>  |     |     |     |     |     |     |     |     |
| <b>MAX</b>    | <b>46</b>  | <b>47</b>  | <b>90</b>  | <b>105</b> |     |     |     |     |     |     |     |     |
| <b>MIN</b>    | <b>0</b>   | <b>0</b>   | <b>0</b>   | <b>0</b>   |     |     |     |     |     |     |     |     |

**REPORTE DE PRECIPITACION**  
**Pluviómetro: Río Botija / San Benito**

UBICACIÓN: 542050 E – 976869 N, en Minera Panama, Distrito of Donoso, Provincia de Colon.

Periodo Reportado: 01/01/2020- 31/12/2020

Promedio de Precipitación: 269 mm

Precipitación Extrema: 127 mm el 14/08/2020

Unidad de medición: mm

| Días         | Jan        | Feb       | Mar       | Apr        | May        | Jun        | Jul        | Aug        | Sep        | Oct        | Nov        | Dec        |
|--------------|------------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 1            | 0          | 4         | 1         | 1          | 0          | 19         | 3          | 0          | 2          | 6          | 7          | 116        |
| 2            | 3          | 21        | 1         | 1          | 10         | 3          | 1          | 0          | 7          | 32         | 2          | 5          |
| 3            | 0          | 3         | 0         | 0          | 2          | 1          | 5          | 11         | 83         | 41         |            | 12         |
| 4            | 5          | 15        | 0         | 4          | 21         | 10         | 5          | 1          | 0          | 3          |            | 1          |
| 5            | 17         | 4         | 3         | 0          | 6          | 76         | 12         | 12         | 0          | 6          |            | 11         |
| 6            | 1          | 0         | 0         | 2          | 10         | 0          | 2          | 2          | 0          | 0          | 0          | 2          |
| 7            | 14         | 0         | 1         | 4          | 3          | 0          | 9          | 0          | 0          | 81         | 0          | 3          |
| 8            | 25         | 4         | 1         | 2          | 18         | 0          | 2          | 34         | 0          | 7          | 0          | 108        |
| 9            | 5          | 1         | 4         | 5          | 0          | 13         | 4          | 1          | 0          | 0          | 0          | 92         |
| 10           | 8          | 6         | 12        | 0          | 8          | 1          | 4          | 0          | 0          | 0          | 3          | 42         |
| 11           | 0          | 0         | 6         | 0          | 0          | 28         | 0          | 10         | 0          | 0          | 2          | 17         |
| 12           | 2          | 1         | 0         | 9          | 7          | 0          | 0          | 31         | 2          | 3          | 0          | 7          |
| 13           | 0          | 0         | 5         | 38         | 2          | 20         | 1          | 10         | 12         | 12         | 28         | 0          |
| 14           | 1          | 5         | 5         | 33         | 0          | 0          | 14         | 127        | 30         | 9          | 4          | 0          |
| 15           | 16         | 8         | 1         | 2          | 0          | 18         | 2          | 0          | 7          | 1          | 12         | 1          |
| 16           | 3          | 5         | 3         | 0          | 3          | 4          | 5          | 0          | 3          | 1          | 0          | 0          |
| 17           | 1          | 17        | 2         | 3          | 1          | 1          | 18         | 0          | 5          | 29         | 1          | 36         |
| 18           | 0          | 5         | 0         | 1          | 1          | 27         | 6          | 2          | 0          | 6          | 16         | 58         |
| 19           |            | 0         | 1         | 1          | 15         | 0          | 18         | 0          | 5          | 0          | 39         | 17         |
| 20           |            |           | 0         | 0          | 1          | 3          | 4          | 0          | 27         | 17         | 1          | 9          |
| 21           |            |           | 5         | 0          | 48         | 0          | 3          | 32         | 6          | 14         | 24         | 46         |
| 22           |            |           | 2         | 0          | 66         | 3          | 1          | 2          | 0          | 0          | 44         | 21         |
| 23           |            |           | 1         | 0          | 0          | 5          | 14         | 2          | 25         | 0          | 1          | 12         |
| 24           |            |           | 1         | 0          | 0          | 1          | 2          | 15         | 2          | 8          | 5          | 2          |
| 25           |            |           | 5         | 4          | 9          | 4          | 42         | 23         | 13         | 18         | 23         |            |
| 26           |            |           | 0         | 2          | 2          | 36         | 3          | 0          | 4          | 25         | 27         |            |
| 27           | 5          |           | 7         | 5          | 34         | 11         | 2          | 2          | 3          | 17         | 15         |            |
| 28           | 2          |           | 2         | 9          | 0          | 2          | 1          | 0          | 92         | 16         | 30         |            |
| 29           | 2          |           | 0         | 6          | 16         | 0          | 6          | 15         | 0          | 17         | 0          |            |
| 30           | 0          |           | 2         | 4          | 58         | 11         | 3          | 0          | 5          | 1          | 31         | 4          |
| 31           | 0          |           | 8         |            | 0          |            | 0          | 0          |            | 4          |            | 0          |
| <b>TOTAL</b> | <b>110</b> | <b>99</b> | <b>79</b> | <b>136</b> | <b>341</b> | <b>297</b> | <b>192</b> | <b>332</b> | <b>333</b> | <b>374</b> | <b>315</b> | <b>622</b> |
| <b>MEAN</b>  | <b>5</b>   | <b>5</b>  | <b>3</b>  | <b>5</b>   | <b>11</b>  | <b>10</b>  | <b>6</b>   | <b>11</b>  | <b>11</b>  | <b>12</b>  | <b>12</b>  | <b>24</b>  |
| <b>MAX</b>   | <b>25</b>  | <b>21</b> | <b>12</b> | <b>38</b>  | <b>66</b>  | <b>76</b>  | <b>42</b>  | <b>127</b> | <b>92</b>  | <b>81</b>  | <b>44</b>  | <b>116</b> |
| <b>MIN</b>   | <b>0</b>   | <b>0</b>  | <b>0</b>  | <b>0</b>   | <b>0</b>   | <b>0</b>   | <b>0</b>   | <b>0</b>   | <b>0</b>   | <b>0</b>   | <b>0</b>   | <b>0</b>   |

Nota: la falta de dato es producto de la falta de energía en la estación debido a tormentas eléctricas en el área.

**REPORTE DE PRECIPITACION**  
**Pluviómetro: Rio Botija / San Benito**

UBICACIÓN: 542050 E – 976869 N, en Minera Panama, Distrito of Donoso, Provincia de Colon.

Periodo Reportado: 01/01/2021- 30/04/2021

Promedio de Precipitación: 296 mm

Precipitación Extrema: 107 mm el 05/04/2020

Unidad de medición: mm

| Días         | Jan        | Feb        | Mar        | Apr        | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|--------------|------------|------------|------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 1            | 4          | 8          | 7          | 14         |     |     |     |     |     |     |     |     |
| 2            | 6          | 10         | 1          | 33         |     |     |     |     |     |     |     |     |
| 3            | 12         | 16         | 1          | 11         |     |     |     |     |     |     |     |     |
| 4            | 9          | 6          | 1          | 29         |     |     |     |     |     |     |     |     |
| 5            | 2          | 4          | 0          | 107        |     |     |     |     |     |     |     |     |
| 6            | 0          | 0          | 0          | 1          |     |     |     |     |     |     |     |     |
| 7            | 0          | 6          | 0          | 52         |     |     |     |     |     |     |     |     |
| 8            | 2          | 6          | 79         | 6          |     |     |     |     |     |     |     |     |
| 9            | 6          | 1          | 50         | 67         |     |     |     |     |     |     |     |     |
| 10           | 6          | 3          | 11         | 1          |     |     |     |     |     |     |     |     |
| 11           | 29         | 3          | 12         | 7          |     |     |     |     |     |     |     |     |
| 12           | 17         | 1          | 5          | 0          |     |     |     |     |     |     |     |     |
| 13           | 43         | 1          | 9          | 10         |     |     |     |     |     |     |     |     |
| 14           | 5          | 0          | 1          | 8          |     |     |     |     |     |     |     |     |
| 15           | 9          | 0          | 5          | 12         |     |     |     |     |     |     |     |     |
| 16           | 20         | 0          | 2          | 23         |     |     |     |     |     |     |     |     |
| 17           | 3          | 1          | 0          | 21         |     |     |     |     |     |     |     |     |
| 18           | 4          | 0          | 0          | 19         |     |     |     |     |     |     |     |     |
| 19           | 3          | 5          | 18         | 2          |     |     |     |     |     |     |     |     |
| 20           | 10         | 7          | 2          | 12         |     |     |     |     |     |     |     |     |
| 21           | 2          | 15         | 7          | 6          |     |     |     |     |     |     |     |     |
| 22           | 6          | 2          | 4          | 11         |     |     |     |     |     |     |     |     |
| 23           | 6          | 5          | 0          | 3          |     |     |     |     |     |     |     |     |
| 24           | 3          | 5          | 0          | 13         |     |     |     |     |     |     |     |     |
| 25           | 12         | 3          | 4          | 20         |     |     |     |     |     |     |     |     |
| 26           | 0          | 22         | 1          | 0          |     |     |     |     |     |     |     |     |
| 27           | 13         | 12         | 13         | 1          |     |     |     |     |     |     |     |     |
| 28           | 4          | 7          | 5          | 10         |     |     |     |     |     |     |     |     |
| 29           | 4          |            | 21         | 12         |     |     |     |     |     |     |     |     |
| 30           | 6          |            | 13         | 1          |     |     |     |     |     |     |     |     |
| 31           | 5          |            | 0          |            |     |     |     |     |     |     |     |     |
| <b>TOTAL</b> | <b>251</b> | <b>149</b> | <b>272</b> | <b>512</b> |     |     |     |     |     |     |     |     |
| <b>MEAN</b>  | <b>8</b>   | <b>5</b>   | <b>9</b>   | <b>17</b>  |     |     |     |     |     |     |     |     |
| <b>MAX</b>   | <b>43</b>  | <b>22</b>  | <b>79</b>  | <b>107</b> |     |     |     |     |     |     |     |     |
| <b>MIN</b>   | <b>0</b>   | <b>0</b>   | <b>0</b>   | <b>0</b>   |     |     |     |     |     |     |     |     |

### Pluviómetro: Valle Grande

Periodo Reportado: 01/01/2020- 31/12/2020

Precipitación Extrema: 135 mm el 08/12/2020

Unidad de medición: mm

[illegible]

**REPORTE DE PRECIPITACION****Pluviómetro: Valle Grande**

UBICACIÓN: 537161 E – 975306 N, en Minera Panama, Distrito of Donoso, Provincia de Colon.

Periodo Reportado: 01/01/2021- 30/04/2021

Promedio de Precipitación: 329 mm

Precipitación Extrema: 84 mm el 08/03/2021

Unidad de medición: mm

| Días         | Jan        | Feb        | Mar        | Apr        | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|--------------|------------|------------|------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 1            | 1          | 13         | 12         | 25         |     |     |     |     |     |     |     |     |
| 2            | 18         | 17         | 5          | 70         |     |     |     |     |     |     |     |     |
| 3            | 13         | 67         | 2          | 3          |     |     |     |     |     |     |     |     |
| 4            | 3          | 12         | 1          | 27         |     |     |     |     |     |     |     |     |
| 5            | 7          | 3          | 0          | 77         |     |     |     |     |     |     |     |     |
| 6            | 6          | 0          | 0          | 5          |     |     |     |     |     |     |     |     |
| 7            | 0          | 2          | 0          | 50         |     |     |     |     |     |     |     |     |
| 8            | 0          | 14         | 84         | 18         |     |     |     |     |     |     |     |     |
| 9            | 7          | 1          | 66         | 33         |     |     |     |     |     |     |     |     |
| 10           | 10         | 2          | 27         | 2          |     |     |     |     |     |     |     |     |
| 11           | 17         | 3          | 6          | 1          |     |     |     |     |     |     |     |     |
| 12           | 25         | 1          | 5          | 0          |     |     |     |     |     |     |     |     |
| 13           | 16         | 0          | 35         | 14         |     |     |     |     |     |     |     |     |
| 14           | 1          | 0          | 6          | 8          |     |     |     |     |     |     |     |     |
| 15           | 13         | 0          | 9          | 33         |     |     |     |     |     |     |     |     |
| 16           | 6          | 0          | 7          | 12         |     |     |     |     |     |     |     |     |
| 17           | 8          | 13         | 0          | 9          |     |     |     |     |     |     |     |     |
| 18           | 9          | 3          | 0          | 4          |     |     |     |     |     |     |     |     |
| 19           | 6          | 2          | 12         | 0          |     |     |     |     |     |     |     |     |
| 20           | 16         | 6          | 1          | 0          |     |     |     |     |     |     |     |     |
| 21           | 2          | 26         | 5          | 10         |     |     |     |     |     |     |     |     |
| 22           | 3          | 12         | 2          | 3          |     |     |     |     |     |     |     |     |
| 23           | 9          | 3          | 1          | 5          |     |     |     |     |     |     |     |     |
| 24           | 4          | 15         | 1          | 10         |     |     |     |     |     |     |     |     |
| 25           | 8          | 5          | 1          | 14         |     |     |     |     |     |     |     |     |
| 26           | 0          | 28         | 5          | 6          |     |     |     |     |     |     |     |     |
| 27           | 7          | 6          | 9          | 2          |     |     |     |     |     |     |     |     |
| 28           | 6          | 8          | 15         | 6          |     |     |     |     |     |     |     |     |
| 29           | 4          |            | 17         | 3          |     |     |     |     |     |     |     |     |
| 30           | 10         |            | 13         | 0          |     |     |     |     |     |     |     |     |
| 31           | 17         |            | 4          |            |     |     |     |     |     |     |     |     |
| <b>TOTAL</b> | <b>252</b> | <b>262</b> | <b>351</b> | <b>450</b> |     |     |     |     |     |     |     |     |
| <b>MEAN</b>  | <b>8</b>   | <b>9</b>   | <b>11</b>  | <b>15</b>  |     |     |     |     |     |     |     |     |
| <b>MAX</b>   | <b>25</b>  | <b>67</b>  | <b>84</b>  | <b>77</b>  |     |     |     |     |     |     |     |     |
| <b>MIN</b>   | <b>0</b>   | <b>0</b>   | <b>0</b>   | <b>0</b>   |     |     |     |     |     |     |     |     |

# REPORTE DE PRECIPITACION

Pluviómetro: Petaquilla

UBICACIÓN: 533134 E – 977255 N, en Minera Panama, Distrito of Donoso, Provincia de Colon.

Periodo Reportado: 01/01/2020- 31/12/2020

Promedio de Precipitación: 272 mm

Precipitación Extrema: 129 mm el 30/11/2020

Unidad de medición: mm

| Row         | Jan        | Feb        | Mar       | Apr       | May       | Jun       | Jul       | Aug        | Sep        | Oct        | Nov        | Dec        |
|-------------|------------|------------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|------------|
| 1           | 17         | 0          | 1         | 1         | 0         | 1         |           | 0          | 0          | 3          | 6          | 106        |
| 2           | 25         | 5          | 2         |           | 0         | 2         |           | 0          | 9          | 79         | 4          | 5          |
| 3           | 3          | 58         | 2         |           | 1         | 1         |           | 2          | 11         | 51         | 2          | 13         |
| 4           | 0          | 21         | 6         |           | 0         | 2         |           | 21         | 2          | 2          | 1          | 12         |
| 5           | 20         | 9          | 2         |           | 2         | 1         |           | 2          | 2          | 16         | 0          | 14         |
| 6           | 19         | 1          | 0         |           | 3         | 3         |           | 0          | 9          | 14         | 1          | 2          |
| 7           | 7          | 0          | 1         |           | 1         | 1         |           | 0          | 0          | 20         | 0          | 15         |
| 8           | 27         | 0          | 1         |           | 2         | 0         |           | 46         | 0          | 10         | 0          | 93         |
| 9           | 18         | 31         | 1         |           | 4         | 0         |           | 2          | 13         | 2          | 0          | 55         |
| 10          | 5          | 1          | 5         |           | 1         | 1         |           | 2          | 0          | 0          | 4          | 127        |
| 11          | 3          | 8          | 4         |           | 6         | 1         |           | 25         | 6          | 0          | 2          | 22         |
| 12          | 1          | 4          | 5         |           | 1         | 8         |           | 35         | 17         | 0          | 0          | 6          |
| 13          | 0          | 4          | 6         |           | 1         | 1         |           | 19         | 14         | 3          | 24         | 2          |
| 14          | 1          | 3          | 4         |           | 1         | 1         |           | 100        | 13         | 1          | 14         | 7          |
| 15          | 3          | 1          | 1         |           | 0         | 1         |           | 1          | 6          | 2          | 16         | 1          |
| 16          | 10         | 3          | 1         | 14        | 1         | 0         |           | 0          | 1          | 2          | 4          | 7          |
| 17          | 14         | 12         | 7         | 13        | 0         | 2         |           | 1          | 37         | 2          | 0          | 50         |
| 18          | 2          | 18         | 3         | 9         | 0         | 0         |           | 1          | 0          | 2          | 5          | 86         |
| 19          | 1          | 11         | 1         | 5         | 1         | 4         |           | 1          | 1          | 5          | 27         | 9          |
| 20          | 24         | 5          | 4         | 3         | 0         | 0         |           | 0          | 66         | 5          | 8          | 9          |
| 21          | 7          | 5          | 1         | 2         | 0         | 1         |           | 0          | 4          | 6          | 18         | 57         |
| 22          | 27         | 15         | 1         | 3         | 0         | 0         |           | 7          | 2          | 8          | 26         | 13         |
| 23          | 65         | 7          | 4         | 3         | 1         | 0         | 2         | 2          | 9          | 8          | 1          | 19         |
| 24          | 86         | 3          | 6         | 2         | 0         | 1         | 1         | 14         | 11         | 9          | 7          | 41         |
| 25          | 3          | 0          | 9         | 1         | 0         | 0         | 24        | 26         | 9          | 7          | 20         | 13         |
| 26          | 32         | 0          | 4         | 1         | 0         | 1         | 2         | 0          | 1          | 7          | 35         | 87         |
| 27          | 3          | 0          | 4         | 0         | 0         | 5         | 5         | 0          | 30         | 6          | 18         | 51         |
| 28          | 2          | 0          | 2         | 1         | 1         | 2         | 3         | 0          | 83         | 11         | 6          | 20         |
| 29          | 6          | 4          | 1         | 0         | 0         | 1         | 4         | 3          | 0          | 14         | 2          | 1          |
| 30          | 0          |            | 4         | 0         | 0         | 1         | 5         | 0          | 16         | 13         | 129        | 5          |
| 31          | 0          |            | 2         |           | 4         |           | 5         | 0          |            | 7          |            | 0          |
| <b>TOTA</b> | <b>431</b> | <b>229</b> | <b>95</b> | <b>58</b> | <b>31</b> | <b>42</b> | <b>51</b> | <b>310</b> | <b>372</b> | <b>315</b> | <b>380</b> | <b>948</b> |
| <b>MEA</b>  | <b>14</b>  | <b>8</b>   | <b>3</b>  | <b>4</b>  | <b>1</b>  | <b>1</b>  | <b>6</b>  | <b>10</b>  | <b>12</b>  | <b>10</b>  | <b>13</b>  | <b>31</b>  |
| <b>MAX</b>  | <b>86</b>  | <b>58</b>  | <b>9</b>  | <b>14</b> | <b>6</b>  | <b>8</b>  | <b>24</b> | <b>100</b> | <b>83</b>  | <b>79</b>  | <b>129</b> | <b>127</b> |
| <b>MIN</b>  | <b>0</b>   | <b>0</b>   | <b>0</b>  | <b>0</b>  | <b>0</b>  | <b>0</b>  | <b>1</b>  | <b>0</b>   | <b>0</b>   | <b>0</b>   | <b>0</b>   | <b>0</b>   |

Nota: En abril y Julio la batería descargada y falta de mantenimiento por COVID 19



## REPORTE DE PRECIPITACION

Pluviómetro: Petaquilla

UBICACIÓN: 533134 E – 977255 N, en Minera Panama, Distrito of Donoso, Provincia de Colon.

Periodo Reportado: 01/01/2021- 30/04/2021

Promedio de Precipitación: 442 mm

Precipitación Extrema: 118 mm el 08/03/2020

Unidad de medición: mm

| Row         | Jan        | Feb        | Mar        | Apr        | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|-------------|------------|------------|------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 1           | 4          | 21         | 25         | 21         |     |     |     |     |     |     |     |     |
| 2           | 21         | 19         | 2          | 111        |     |     |     |     |     |     |     |     |
| 3           | 23         | 73         | 19         | 9          |     |     |     |     |     |     |     |     |
| 4           | 3          | 4          | 4          | 32         |     |     |     |     |     |     |     |     |
| 5           | 6          | 11         | 1          | 83         |     |     |     |     |     |     |     |     |
| 6           | 0          | 0          | 0          | 6          |     |     |     |     |     |     |     |     |
| 7           | 0          | 7          | 0          | 46         |     |     |     |     |     |     |     |     |
| 8           | 0          | 16         | 118        | 22         |     |     |     |     |     |     |     |     |
| 9           | 15         | 1          | 94         | 19         |     |     |     |     |     |     |     |     |
| 10          | 14         | 2          | 38         | 1          |     |     |     |     |     |     |     |     |
| 11          | 16         | 2          | 22         | 0          |     |     |     |     |     |     |     |     |
| 12          | 39         | 3          | 11         | 0          |     |     |     |     |     |     |     |     |
| 13          | 14         | 0          | 20         | 20         |     |     |     |     |     |     |     |     |
| 14          | 1          | 0          | 2          | 9          |     |     |     |     |     |     |     |     |
| 15          | 14         | 0          | 15         | 92         |     |     |     |     |     |     |     |     |
| 16          | 24         | 0          | 1          | 17         |     |     |     |     |     |     |     |     |
| 17          | 10         | 12         | 0          | 7          |     |     |     |     |     |     |     |     |
| 18          | 23         | 0          | 0          | 2          |     |     |     |     |     |     |     |     |
| 19          | 9          | 8          | 15         | 0          |     |     |     |     |     |     |     |     |
| 20          | 17         | 9          | 6          | 0          |     |     |     |     |     |     |     |     |
| 21          | 7          | 62         | 7          | 4          |     |     |     |     |     |     |     |     |
| 22          | 3          | 9          | 8          | 6          |     |     |     |     |     |     |     |     |
| 23          | 14         | 15         | 0          | 13         |     |     |     |     |     |     |     |     |
| 24          | 14         | 13         | 0          | 12         |     |     |     |     |     |     |     |     |
| 25          | 20         | 8          | 3          | 9          |     |     |     |     |     |     |     |     |
| 26          | 5          | 24         | 4          | 4          |     |     |     |     |     |     |     |     |
| 27          | 5          | 16         | 18         | 2          |     |     |     |     |     |     |     |     |
| 28          | 10         | 12         | 7          | 1          |     |     |     |     |     |     |     |     |
| 29          | 17         |            | 35         | 0          |     |     |     |     |     |     |     |     |
| 30          | 11         |            | 12         | 1          |     |     |     |     |     |     |     |     |
| 31          | 22         |            | 3          |            |     |     |     |     |     |     |     |     |
| <b>TOTA</b> | <b>381</b> | <b>347</b> | <b>490</b> | <b>549</b> |     |     |     |     |     |     |     |     |
| <b>MEA</b>  | <b>12</b>  | <b>12</b>  | <b>16</b>  | <b>18</b>  |     |     |     |     |     |     |     |     |
| <b>MAX</b>  | <b>39</b>  | <b>73</b>  | <b>118</b> | <b>111</b> |     |     |     |     |     |     |     |     |
| <b>MIN</b>  | <b>0</b>   | <b>0</b>   | <b>0</b>   | <b>0</b>   |     |     |     |     |     |     |     |     |

Nota: En abril y Julio la batería descargada y falta de mantenimiento por COVID 19

**Grafica 1. Promedio de precipitación mensual por pluviómetro 2020**

